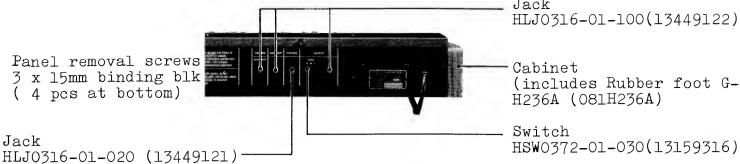
SERVICE NOTES

First Edition

•SPECIFICATIONS • Keyboard 61 Keys; $C_1 \sim C_6$ ●Rear Panel Headphone Jack (8 Ω : Stereo) Jack . . . Output Jack. Vibrato, Slow/Fast Select Footswitch Jack (DP-2) •Drawbars Sine Wave 16', 5-1/3', 8', 4', 2-2/3', 2' Gate Output Jack (OFF: OV/ON: +15V) **Bright Wave** Switch Output Level L/M/H 16', 5-1/3', 8', 4', 2-2/3', 2' (-24dBm/-12dBm/0dBm) ● Control Panel ●Dimensions 892(W)x106(H)x347(D)mm Power switch SDG5P001-1 (13129101) 100V SDG5P001-2 (13129102) 117V Musick rack SDG5P502 (13129103) 220/240V holder Button H110(064H110) N-506 (2247050600) Panel Pot. H84A (072H084A) EVHCOAP15C14 10kC (13229128) Drawbar Complete assy w/pcb OPH134 (149H134) Panel removal Knob N-128 (2246012800) screws Joint screw H5 (pot, and button are 3 x 30mm brown separately available, see parts list) ■Roland Pot. EVHCOAP15B15 Keyboard SK-361A Switch 100kB(13229126) Keyboard removal screws with LED 4 x 15mm truss black KHC11901 (13129712) (7 pcs at bottom) Pot. Tablet EVHCOAP15A14 N-167(2247516700) wht N-168(2247516800) orn lokA (13229130) N-169(2247516900) yel

N-180(2247518000) red

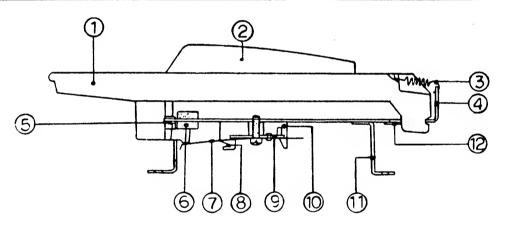


Cabinet (includes Rubber foot G-5) H236A (081H236A)

Switch HSW0372-01-030(13159316)

KEYBOARD PARTS

NO.	PART NO.	DESCRIPTION		NO.	PART NO.	DESCRIPTION	
1	106H026	Natural key	C, F	5	068H004	Guide bush	H4
1	106H027	Natural key	D	6	101H143	Level felt	H143
1	106H028	Natural key	Е, В	7 =	071H044	Contact leaf	H44
1	106Н029	Natural key	G	8	071H049	Bus bar 61p	H49
1	106H030	Natural key	A	9	043H007	Switch unit 12p	Н7
1	106H031	Natural key	C; F'	9	043H008	Switch unit 13p	Н8
2	106H032	Sharp key		10	104H029	Holder	H29
3	070H029	Key spring	H29	11	062H024	Chassis bracket	H24
4	061H086A	Chassis	Н86А	12	098Н006	Key stopper	Н6



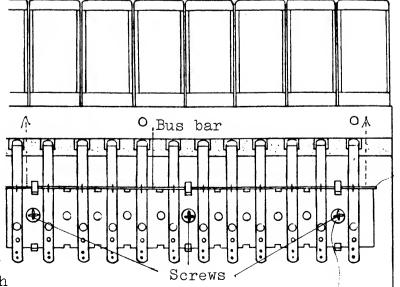
HOW TO REMOVE KEY and KEYSWITCH UNIT

Key

- 1. Remove key stopper (12).
- 2. Remove key spring (3).
- 3. Slide key leftwards and lift it out of chassis.
- 4. When inserting a new key, take care not to bend.contact leaf (7) with the key leg.

Keyswitch unit

- 1. Pull bus bar upward out of hooks.
- 2. Remove three screws on the switch unit, it's ready to remove.



CEE TlA(s)

second 220/240V

12559513

PARTS LIST

Roland has employed new part codings (8-10 digits). Being in transition period, two other codings are still effective on this list.

When ordering replacements, callout parts in full number followed by part name whichever coding they are designated by.

Keyboard SK-361A

CASE			
081H236A	Cabinet	H236A	
	Rubber foot	G-5	
072H084A	Panel	H84A	
064H110	Holder	HllO	music rack
092H009	Music rack	H09	

KNOB. BUTTON. TABLET

2247050600	Button	11-506	pTK	power	SW.
2247012800	Knob	N-128	pot.		,
22475167.00	Tablet	N-167		wht	
2247516800	Tablet	N-168		orn	
2247516900	Tablet	N-169		yel	
2247518000	Tablet	N-180		red	

SWITCH

SDG5P001-1	power	loov
SDG5P001-2	power	117V
SDG5P502	power	220/240V
HSW0372-01-0	30 slide	
KHC11901 w/	LED	tablet
	SDG5P001-2 SDG5P502 HSW0372-01-0	SDG5P001-2 power SDG5P502 power HSW0372-01-030 slide

JACK

13449122	HLJ0316-01-100		
13449121	HLJ0316-01-020	stereo	PHONES

15019245

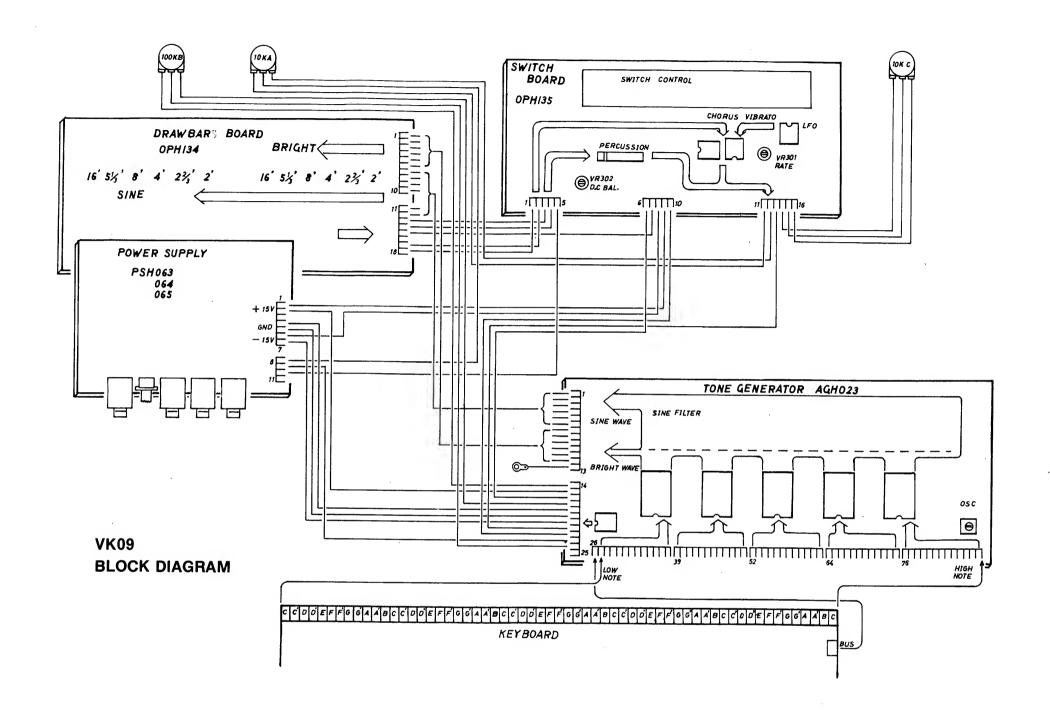
1B4B41

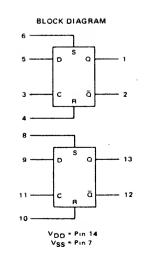
rectifer bridge 1.0A 100V

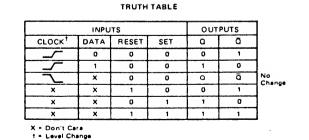
COIL. TRANSFORMER

022H043J	PT-H4	3J	power		1007
022H043C	PT - H4	3C	power		117V
022H043D	PT-H4	3D	power	22	0/240V
022 – 135	Coil	40M-067	7-018	10uH	osc.

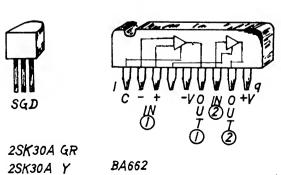
PCB ASSI	EMBLY	POTENTIC	METER	
144H023A	AGHO23A (pcb 052H322A) DRAWBAR GENERATOR	13229126	EVHCOAP15A14 10kA	
149H134A	OPH134A (pcb 052H323A) DRAWBAR	13229128	EVHCOAP15C14 10kC	
149H135B	OPH135B (pcb 052H324B) SWITCH	13229130	EVHCOAP15B15 100kB	
146H063B	PSH063B (pcb 052H325B) P.SUPPLY 100V	compatible	e with EVHCOAK15	
146H064B	PSH064B (pcb 052H325B) 117V			
146H065B	PSH065B (pcb 052H325B) 220/240V	Trimmer		
		13229113	H1051A011-(SR19R)	4.7KB
		13229114	H1051A013-(SR19R)	10KB
				10111
SEMICON	DUCTOR			
IC	TARACA D	Drawbar	pot w/knob	
15199504	TA7222AP amp	003H001	Drawbar Hl	2'
15179125	TMS3617NS chromatic div'r/keyer	003H002	Drawbar H2	2 - 2/3
15159124T0	TC4093BP quadruple 2-input NAND shimitt	003H003	Drawbar H3	4'
15159106T0	TC4016BP quad bilateral switch	003H004	Drawbar H4	8'
15159104T0	TC4011BP(or HD14011BP) quad 2-in NAND gate	003H005	Drawbar H5	5 - 1/3'
15159105 T 0	TC4013BP(or HD14013BP) dual D Flip-Flop	003Н006	Drawbar H6	16'
15199110T0	TA7179P regulator			
15229802	BA662A (or B) vari-conductance amp		potentiometer only	
15169504	MN3101 BBD driver		S401XKA03-2.7KC	
15219213	MN3009 BBD 256-stage		knob only	
15189105	uPC4558C dual op amp	• • •	Knob #19 2-2/3'	
		• • •	Knob #21 5-2/3'	
Transistor		• • •	Knob #21 16'	1
15119602	2SB647	• • •	Knob #20 8'	
15119112	2SA1015-Y or GR	• • •	Knob #20 4'	
15129115	2SC1815-Y or GR		Knob #20 2'	
15139101	2SK3OATM-Y FET			
15119805	2\$B834-0			
15129815	2SD880-0			
		FUSE		
Diode		12559133	MGPOOOl lA prim.	100V
15019548	RD12EB or 05Z12U zener .	12559311	MGPOOOl lA csa prim	
15019103	1\$2473 or M8555	12559511	CEE T500mA(s) prim	
7-07-004-				

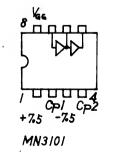


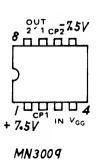


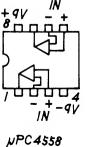


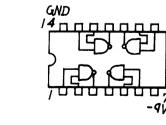












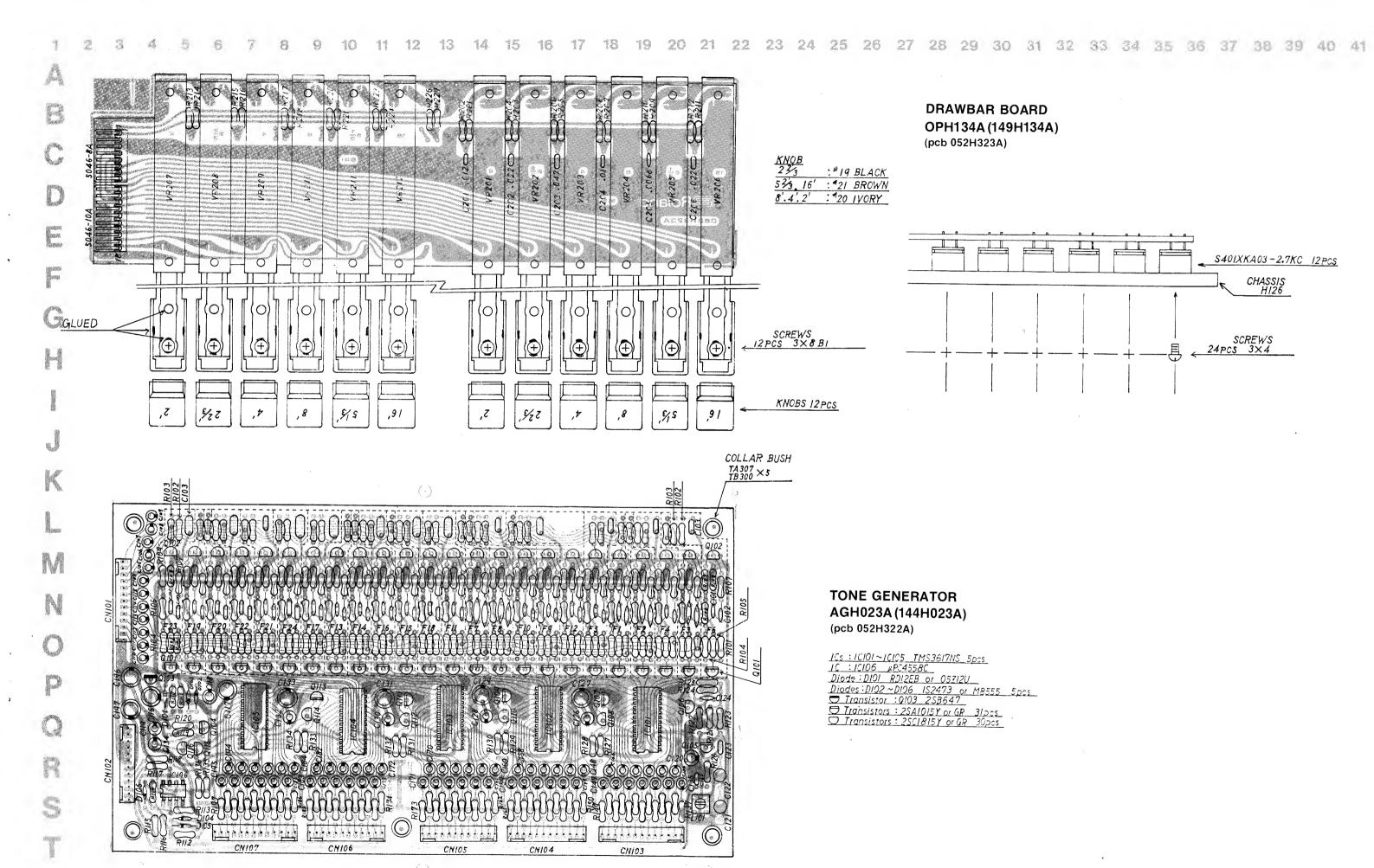
TC40IIBP

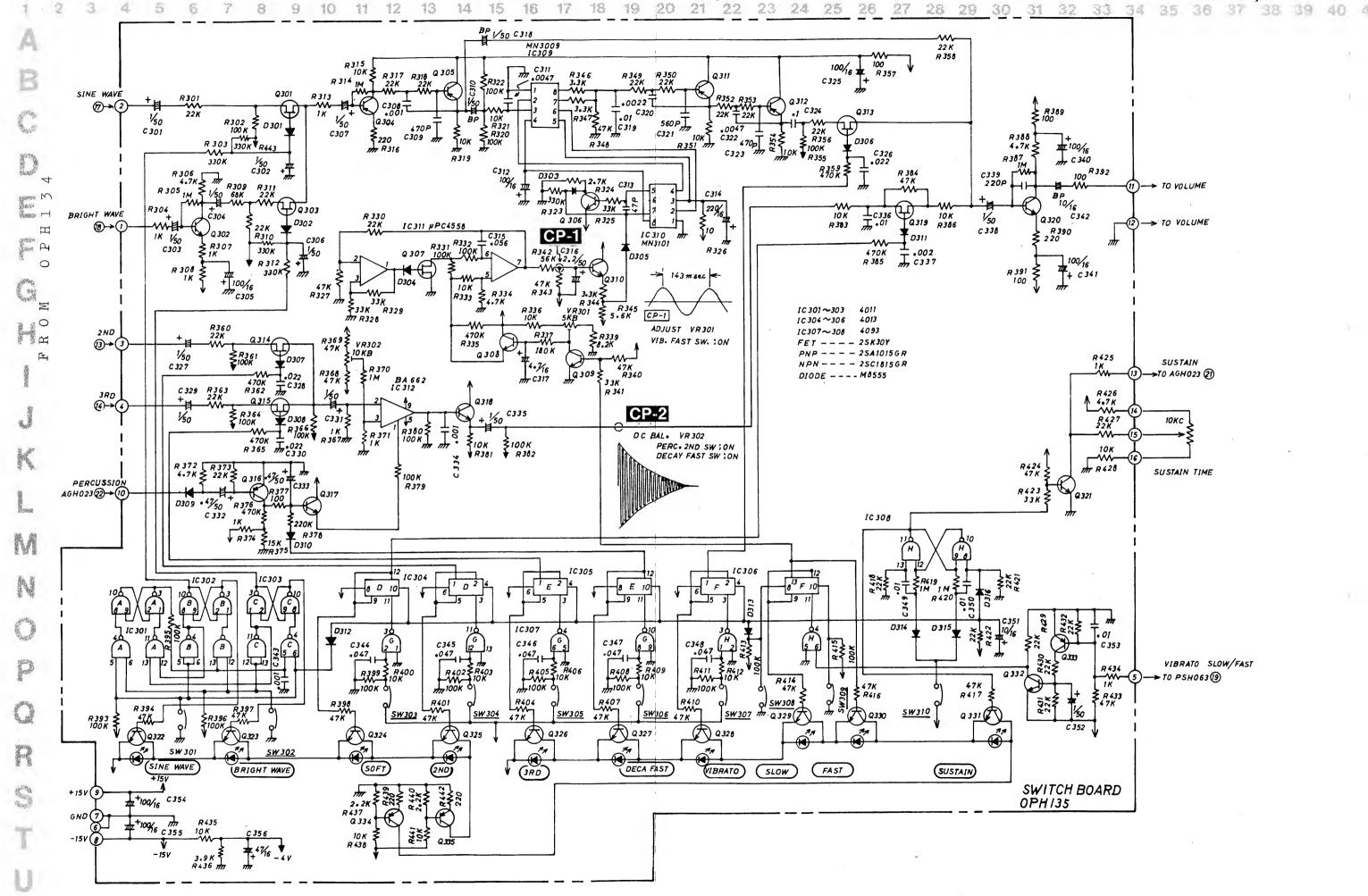
VK09

MAY 15, 1981

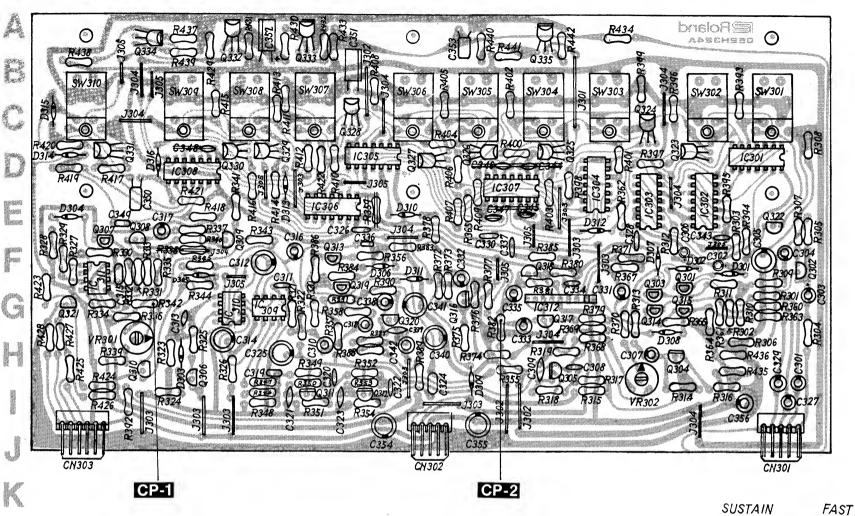
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 38 37 38 39 40 2 22 K T .01 R126 T C125 **₹** TUNE IC101~105 TMS 3617NS 100 KB IC 106 µPC 4558 2SA1015 PN P NPN 2SC1815 330P C102 2SB 647 40 MO 18 (10 H) 1 101 9105 • | | • • 022 C123 SINE FILTER 05Z12Z D101 \$10 K R122 D102~106 M8555 10/16 C104 VR201~212 -/--16' 51' 8' 4' 23' 2' 0101 · 3RD 2N/D ₹R105 ₹4.7K ₹22K TO OPH135 C109 128 IC101 BRIGHT WAVE 14,77 16 5½' F4 IC102 SINE FILTER R C C C 103 R 102 R 103 BRIGHT WAVE 5% 8' 4' 2% 2' 10K 330 P 15K 470 P 680P IC103 10K .018 . 001 p 10K . 027 .0018 .0033 . 027 820P 22K 680P .0018 Fro .027 10K .0022 IC104 . 082 .0039 .047 DRAWBAR BOARD .0082 0PH134 .0015 33K .0022 TMS3617NS .0033 5/5 .0047 10K .056 Q103 F₁₇ IC105 16 0 3 SUSTAIN BIAS 0 4 Vss 0 5 K8 0 6 15K .0068 258647 TONE GENERATOR LOW NOTE +1 470 470 470 .082 10K •01 TOP AGH023 BOARD D106 R115 F19 .0056 22K 22 K6 F₂₀ .01 R113 K10 0 8 K11 0 9 K12 0 10 K13 0 11 GATE OUT - TO PSHO63 (18) 20 | K4 19 | K3 18 | K2 17 | K1 16 | RESET IN F₂₁ . 027 .0068 15K 15K F_{22} . 056 47K R117 PERCUSSION -> TO OPH135 (1) KEY BUS D104 D105 RESET OUT 12 CLOCK IN 13 .015 10K 10K . 082 SUSTAIN -FROM OPH135(3) R119 100K **₹** 1 **†** . 033 15 CLOCK OUT ---->ТО ОРН135 (6) IC 106 ppC4558 109/6 + 15 100/ -B 16

4





11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41



SWITCH BOARD OPH135A

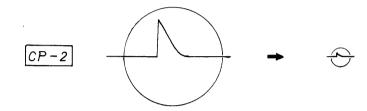
ADJUSTMENT

VIBRATO RATE

Switch VIBRATO "FAST" to ON. Set VR301 for the waveform

PERCUSSION DC BALANCE

Switch the PERCUSSIONs to OFF. Push the DRAWBARs to O (zero). Set VR302 for minimum key click.



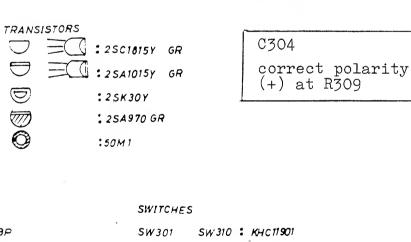
OPH135B (149H135B) (pcb 052H324B)

3RD

2ND

SOFT

below, with serial number 092300
Parts soldered at foil side of OPH135A are mounted on component side. (C344 - C348, R347, R348, R359)



IC 301 ~ 303 : TC4011BP HD14**011**BP 1C304~306 € TC4013BP HD14013BP IC 307 ~308 : TC4093BP HD4093

IC 309 \$ MN3009 IC 310 : MN 31 01 IC 311 : µPC4558C IC 312 : BA662

: 1S 2473 M8555

TABLETS

SW 301 SW 304 SW 305 SW 308 SW 309

: WHITE

SW303 SW307 SW310

: ORANGE

: YELLOW SW306

: RED SW 302

DECAY FAST SLOW **VIBRATO** BRIGHT SINE O REPOSANT CN302 5046-6A 5046-5A 5046-5A Below

HEATSINK H24×2 with fuses and cap for PSH065 $^{\scriptsize{\textcircled{+}}}$

11 12

POWER SUPPLY PSH063B(146H063B) 100V PSH064B(146H064B) 117V PSH065B(146H065B) 220/240V (pcb 052H325B)

With Serial Number around 092300

Differs from A version only in that C518 is mounted on the component

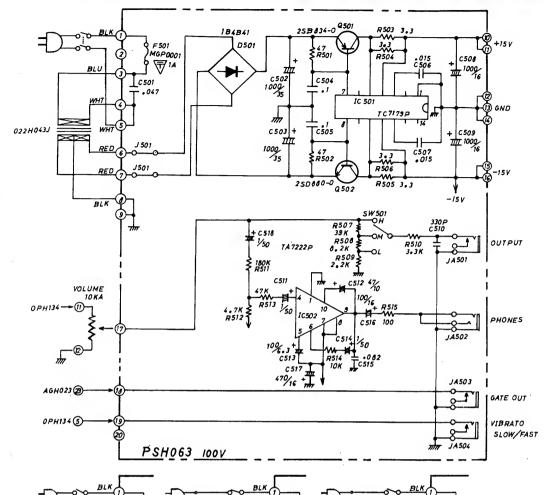
> Power transfomer secondary ratings 15VDC x 2 @300mA

Read TC7179P as TA7179P

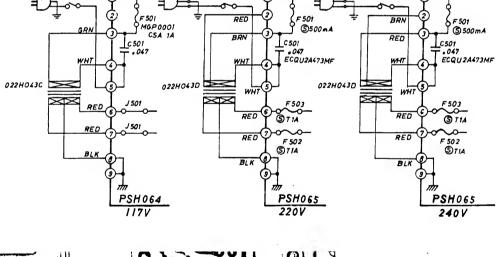
PSH063/064/065-A

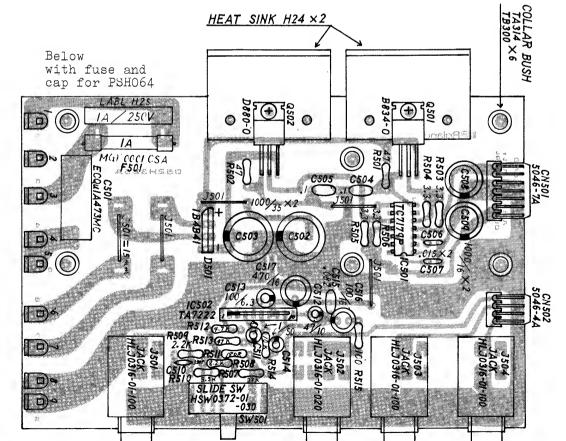
NOTE: C518 leads are soldered on each side of the cut.

Conductive foil going to pin 1 of IC502 and R512 is cut. R512 reaches -15V



13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4





VIBRATO

SLOW/FAST

GATE OUT

PHONES

LEVEL

OUT PUT

HEAT SINK H24 ×2

